

# 8K 2×8 HDMI Matrix Splitter with Downscaling & Audio

HDMI 2.1 Matrix Splitter with Independent 8K-to-4K/1080P Downscaling, S/DPDIF & Analog Audio De-embedding

MPN: SP-HDMI2X8-8K



KanexPro SP-HDMI2X8-8K is a professional 2-input, 8-output HDMI matrix splitter compliant with HDMI 2.1 and HDCP 2.3. Supporting 48Gbps video bandwidth, it handles resolutions up to 8K@60Hz and 4K@120Hz. With independent 8K to 4K/1080P downscaling and HDR-to-SDR conversion on each output, it distributes high-end content to a mix of 8K displays and legacy 4K or 1080p monitors simultaneously. Featuring optical S/DPDIF and analog audio de-embedding with gain control, plus gaming-optimized ALLM, VRR, and FVA pass-through, the SP-HDMI2X8-8K is ideal for large digital signage networks, multi-room AV distribution, gaming venues, and corporate environments.

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| <br><b>8K@60Hz</b><br>48Gbps HDMI 2.1<br>next-gen video | <br><b>4K@120Hz</b><br>High frame rate<br>gaming ready | <br><b>2×8 Matrix</b><br>2 inputs to<br>8 outputs | <br><b>Downscaler</b><br>8K → 4K/1080P<br>per output | <br><b>VRR / ALLM</b><br>Gaming optimized<br>pass-through |
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## KEY FEATURES:

- Dual 8K inputs — seamlessly switch between two 8K sources for distribution to eight displays
- Extreme resolution — 8K@60Hz 4:2:0 12-bit and 4K@120Hz 4:4:4 12-bit for fluid, high-detail imagery
- Independent downscaling — built-in 8K to 4K/1080P per output for mixed-display environments
- Audio de-embedding — optical S/DPDIF and L/R analog (5-pin phoenix) with dedicated gain control
- Gaming features — full ALLM, VRR, and FVA pass-through for low-latency gaming
- Rich dynamic range — HDR10, HDR10+, Dolby Vision, and HLG with HDR-to-SDR conversion
- Smart EDID management — controllable via front-panel buttons, IR remote, or API commands

## SPECIFICATIONS

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| HDMI Compliance | HDMI 2.1                                                         |
| HDCP Compliance | HDCP 2.3                                                         |
| Video Bandwidth | 48Gbps                                                           |
| Max Resolution  | 8K@60Hz 4:2:0 12-bit / 4K@120Hz 4:4:4 12-bit                     |
| Color Space     | RGB, YCbCr 4:4:4, 4:2:2, 4:2:0                                   |
| Audio Formats   | LPCM 7.1, Dolby TrueHD, DTS-HD MA, Dolby Atmos, DTS:X            |
| Input Ports     | 2× HDMI Type A [19-pin female]                                   |
| Output Ports    | 8× HDMI Type A, 1× Optical (S/DPDIF), 1× L/R (5-pin phoenix)     |
| Control Ports   | 1× RS-232 (3-pin phoenix), 1× IR CTL (3.5mm), 1× USB-C (Service) |
| Power Supply    | DC 12V / 1A                                                      |
| Dimensions      | 220mm [W] × 110mm [D] × 21.5mm [H]                               |
| Weight          | 620g                                                             |

